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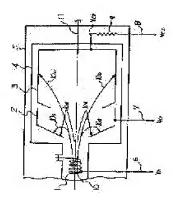
(22) Date of filing: **23.07.1990** (72) Inventor: **TSUTAKI KUNIO**

(54) MULTI-STAGE DEPRESSED COLLECTOR FOR MICROWAVE TUBE

(57)Abstract:

PURPOSE: To realize a multi-stage depressed collector in which the number of electrons returning to interaction portion is small by connecting at least one electrode to a lead wire through a resistor.

CONSTITUTION: A voltage Vh is applied to a helix 1 through a helix lead wire 6, a voltage Vcl to a first collector electrode 2 through a first collector wire 7 a voltage Vc2 to a second collector electrode 3 through a resistor 9 by a second collector lead wire 8. At that time, the electric potential of a second collector electrode 3 in which the number of electrons returning to the helix 1 is small is lower than the constant voltage Vc2 of the second collector electrode 3 which is generated in a power supply. In that case, the appropriate resistor 9 is interposed between the second collector electrode 3 and the second collector lead wire 8, and the actual voltage applied to the second collector electrode 3 is a voltage Vc2 lower than the voltage Vc2 of the power supply by a voltage drop which is determined by the resistor 9 and a current flowing therethrough and the return electron at the multi-stage depressed collector enter into the first collector electrode 2 like electron beams 10d thereby being able to realize the multi-stage depressed collector in which the number of return electrons is small.



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